AUTODOC CLUB

How to change brake hose on a car – replacement tutorial

VIDEO TUTORIAL



REQUIRED TOOLS:



- Tap wrench
- Torx wrench
- Torx bit
- Brake hose clip
- Impact socket
- Jack
- Line stoppers

BUY TOOLS

Please note!

- A brake hose conveys brake fluid to the actuators
- Road safety directly depends on the serviceability of the hose
- If any damage is revealed, the component must be replaced immediately
- When braking, high pressure builds up inside the hose
- If it is damaged and the brake fluid leaks out, the braking system will fail
- The car will not be able to stop at the right moment

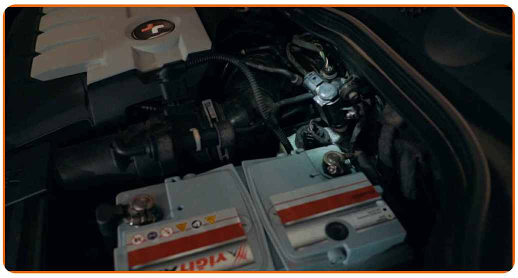
1 First, locate the brake hose



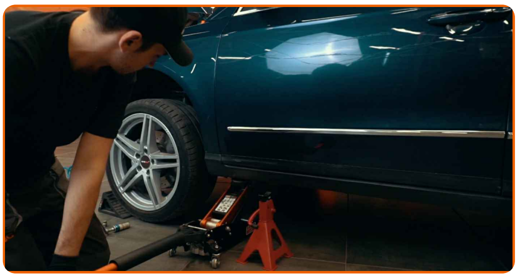
Important!

- Brake hoses are not only located near the calipers
- They can also be located on the undercarriage where the brake line is routed

2 Check the brake fluid level in the reservoir regularly while working on the vehicle



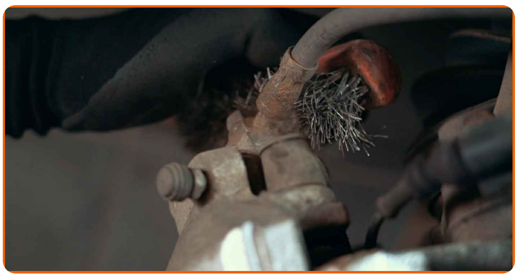
3 You can access the hoses using a jack or car lift



Please note!

- You can also position the car on a ramp or over an inspection pit
- In some vehicles, the wheel does not need to be taken off to remove the brake hose

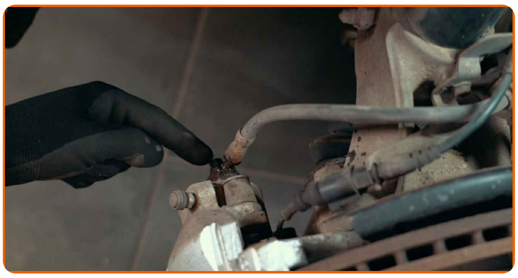
4 Before starting to work, clean the fasteners on the caliper and the car body



5 Treat them with penetrating oil and give it a couple of minutes to work



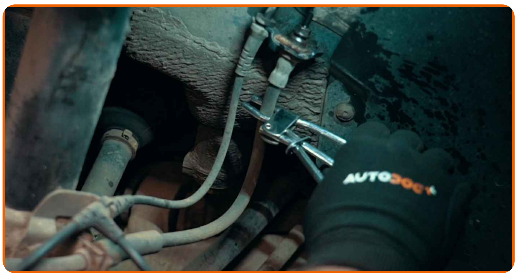
6 Clean the work areas with a universal cleaner



Please note!

- The fastener on the brake caliper is usually easy to unscrew
- Unscrewing the fastener on the car body often requires some extra force due to corrosion

7 There is brake fluid inside the brake hose. To prevent it from leaking, use special stoppers. In this case, there is no need to follow any specific order for disconnecting the elements



AUTODOC recommends:

- If you are using a regular hose clamp, clamp off the hose at its base
- Disconnect the brake hose from the brake caliper and drain any remaining brake fluid out of the hose

8 Get acquainted with the design of the component and its fasteners



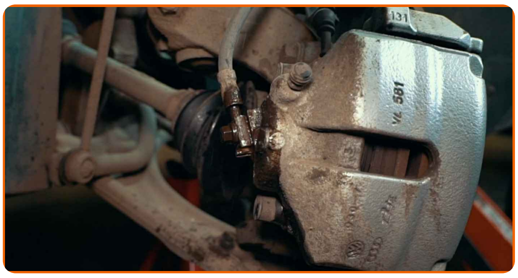
9 Take off the brake caliper and unscrew it from the hose, which stays in place.



10 Alternatively, unscrew the brake line fitting and unscrew the hose from the brake caliper.



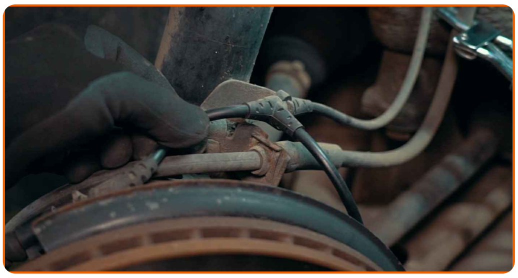
11 Clean the work area of any traces of the penetrating oil to prevent it from getting inside the caliper.



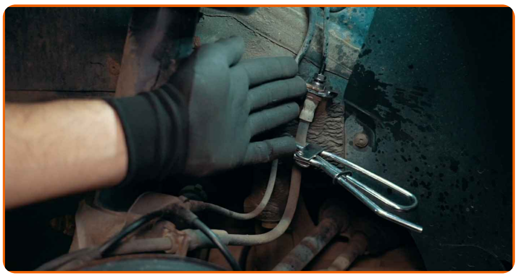
12 Prepare a drain pan and unscrew the fastener



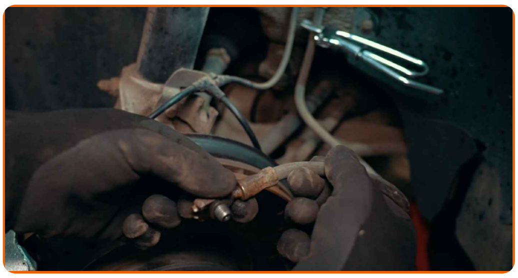
13 Follow the hose upwards, unscrewing all fasteners one by one



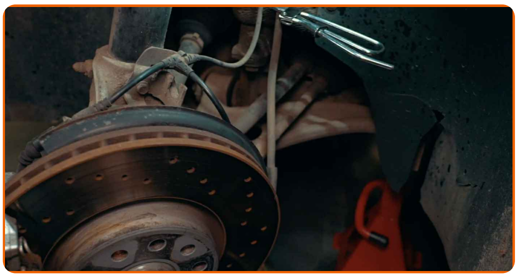
14 The last fastener should be the one located on the car body



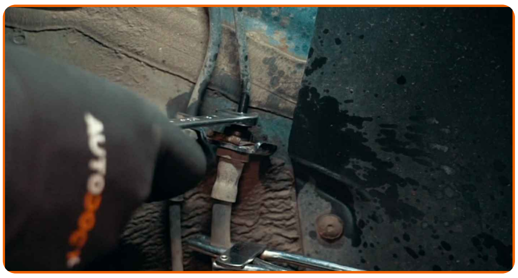
15 Remove the brake hose from its mounting seat by slightly twisting it.



16 Take out the hose and put it into the drain pan.



17 Unscrew the brake line fitting using a suitable tool



18 If the fastener starts to rotate together with the brake pipe, clean the nut and carefully loosen it



Caution!

- Otherwise, this part of the brake line can get damaged and will need to be replaced

19 Try turning the fitting a little bit to loosen the threaded connection



20 Remove the hose fastener



21 Clean the connection and, holding the hose, unscrew the line fitting completely



22 Remove the old brake hose from the mounting seat



23 After removing the hose from its mounting seat on the subframe, unscrew it from the caliper



24 Block off the brake line to prevent fluid leakage



25 Check and, if necessary, top up the brake fluid in the reservoir



26 Thoroughly clean the mounting seats for the new brake hose



27 Install the brake hose. Use new sealing washers



28 Tighten the fastener and install the hose according to how it was previously routed



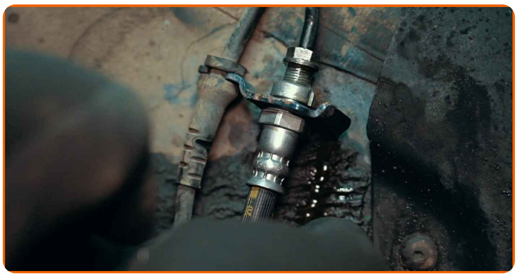
29 Secure the hose to the car body, paying attention to its fastener's profile



Please note!

- Usually, the hose needs to be installed in a certain position

30 Insert the brake pipe with the fitting into the hose



31 Carefully screw the fastener onto the fitting



32 Tighten the fitting



33 Tighten all fasteners to the torque specified by the manufacturer



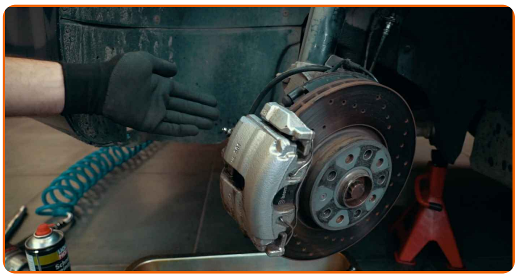
Important!

- The system needs to be bled since air got into it when the hose was being replaced

34 Remove the protective cap from the bleeder screw and clean it



35 Bleed the system of air by pushing the brake fluid through it



36 Use a brake bleeder device



37 First, unscrew the bleeder screw slightly



38 Press the brake pedal repeatedly to pump the brake fluid through the line



Please note!

- Air will go out of the bleeder screw which is located at the top of the brake caliper
- No air bubbles should be seen in the transparent hose of the bleeder device
- The device’s check valve prevents air from getting back into the system when the pedal is released

39 When the transparent hose is filled with brake fluid free of any air bubbles, tighten the bleeder screw



40 Clean any traces of brake fluid from the work area



41 Tighten the bleeder screw to the torque specified by the manufacturer



42 Put the protective cap back on and top up the brake fluid in the reservoir



43 Make sure the system is leak-tight by pressing the brake pedal several times in a row



Be careful!

- Sometimes the fasteners connecting the brake line and hose are badly corroded
- Use an additional tool when unscrewing the nut to avoid damaging its edges
- If this does not help, replace the corresponding section of the brake line

44 Make sure that the surface of the brake disc or wheel hub that will contact the wheel is smooth and clean



45 Treat the surface with an anti-corrosion agent



46 Clean the working surface of the brake disc



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